

Datasheet for ABIN7562868  
**GLUT4 Protein (AA 1-509) (His tag)**



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## Overview

Quantity:	1 mg
Target:	GLUT4 (SLC2A4)
Protein Characteristics:	AA 1-509
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GLUT4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Slc2a4 Protein expressed in mammalian cells.
Sequence:	<p>MPSGFQQIGS DDGEPPRQRV TGTLVLAVFS AVLGSLQFGY NIGVINAPQK VIEQSYNATW  LGRQGPGGPD SIPQGTLTTL WALSVAFSV GGMISSFLIG IISQWLGRKR AMLANNVLAV  LGGALMGLAN AAASYEILIL GRFLIGAYSG LTSGLVPMYV GEIAPTHLRG ALGTNLQLAI  VIGILVAQVL GLESM LGTAT LWPLLLALT V LPALLQLILL PFCPESPRYL YIIRNLEGPA  RKSLKRLTGW ADVSDALAE L KDEKRKLERE RPMSLLQLLG SRTHRQPLII AVVLQLSQQL  SGINAVFYYS TSIFESAGVG QPAYATIGAG VVNTVFTLVS VLLVERAGRRL TLHLLGLAGM  CGCAILMTVA LLLLERVPAM SYVSIVAIFG FVAFFEIGPG PIPWFIVAEL FSQGPRPAAM  AVAGFSNWTC NFIVGMGFQY VADAMGPYVF LLFAVLLLG FIFTFLKVPE TRGRTEFDQIS  AAFRRTPSLL EQEVKPSTEL EYLGPDEND</p> <p><b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please</b></p>

### contact us.

#### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

#### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

#### Grade:

custom-made

## Target Details

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#### Target:

GLUT4 (SLC2A4)

#### Alternative Name:

Slc2a4 ([SLC2A4 Products](#))

#### Background:

Solute carrier family 2, facilitated glucose transporter member 4 (GT2) (Glucose transporter type 4, insulin-responsive) (GLUT-4), FUNCTION: Insulin-regulated facilitative glucose transporter, which plays a key role in removal of glucose from circulation (PubMed:26240143, PubMed:26629404). Response to insulin is regulated by its intracellular localization: in the absence of insulin, it is efficiently retained intracellularly within storage compartments in muscle and fat cells (PubMed:26240143, PubMed:26629404). Upon insulin stimulation, translocates from these compartments to the cell surface where it transports glucose from the extracellular milieu into the cell (PubMed:26240143, PubMed:26629404).  
{ECO:0000269|PubMed:26240143, ECO:0000269|PubMed:26629404}.

#### Molecular Weight:

54.8 kDa

#### UniProt:

[P14142](#)

## Target Details

Pathways:	<a href="#">AMPK Signaling</a> , <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Proton Transport</a> , <a href="#">Brown Fat Cell Differentiation</a> , <a href="#">Warburg Effect</a>
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## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months